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Chiron Corporation			NGUYEN, QUANG	
Intellectual Prop	erty			
P.O. Box 8097			ART UNIT	PAPER NUMBER
Emeryville, CA 94662-8097			1633	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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**	Application No.	Applicant(s)
	10/601,610	KLIPPEL ET AL.
Office Action Summary	Examiner	Art Unit
	Quang Nguyen, Ph.D.	1633
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	L. lely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status .		
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-21 are subject to restriction and/or expressions.	vn from consideration.	
Application Papers	·	
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11).	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ratent Application (PTO-152)

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DETAILED ACTION

Claims 1-21 are pending in the present application, and they are subjected to the following restrictions.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-9, drawn to a polynucleotide having the recited limitation in either claim 1 or claim 6, and a cell transformed with the same, classified in class 536, subclass 23:4; class 435, subclass 325.
- II. Claims 10-11, drawn to a transgenic fly and a method of screening for an inhibitor of PI 3-kinase, classified in class 800, subclasses 3 and 13.
- III. Claims 12-13, drawn to a method of reducing cell death due to trauma in a mammalian patient using a viral or non-viral vector comprising the polynucleotide of the present invention, classified in class 514, subclass 44; class 424, subclass 93.2.
- IV. Claim 14, drawn to a method of making 3'-phosphorylated inositol phospholipids using a purified p110 or p110* polypeptide with a vesicle including a PI 3-kinase substrate, classified in class 435, subclass 194.
- V. Claims 15-16, drawn to a method of making a 3' phosphorylated inositol phopholipid comprising transforming a host cell with the polynucleotide of the present invention, classified in class 435, subclass 69.1.

- VI. Claims 17-18, drawn to a 3' phosphorylated inositol phospholipids made by the methods of the present invention, classified in class 514, subclass 102.
- VII. Claim 19, drawn to a method of activating an enzyme effector of PI 3-kinase having a pleckstrin homology domain using a polynucleotide of the present invention, classified in class 435, subclass 6.
- VIII. Claim 20, drawn to a method of promoting activation in a mammalian patient of an insulin signaling pathway comprising contacting a cell characterized by insulin resistance with a vector comprising a polynucleotide sequence of the present invention, classified in class 514, subclass 44.
- IX. Claim 21, drawn to a method of reducing cell death associated with trauma in a mammalian patient, comprising contacting a population of said patient's cells with an effective amount of a pharmaceutical composition comprising a 3'phosphorylated inositol phospholipids, classified in class 514, subclass 102.

The inventions are distinct, each from the other because of the following reasons: Inventions I-II and VI are drawn to different compositions that are structurally, chemically and biochemically distinct one from the others. For example, the isolated polynucleotide of Group I is composed of nucleotides, whereas the transgenic fly of Group II is a distinct living entity and the 3' phosphorylated inositol phospholipids of Group VI are phospholipids.

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Inventions III-V and VII-IX are drawn to distinct methods having different starting materials, different method steps and different desired end-results that require different technical considerations for achieving these end-results. For example, the method of Group III is directed to a gene therapy method for reducing cell death due to trauma in a mammalian patient; the method of Group IV is directed to a method of making 3'-phosphorylated inositol phospholipids using a purified p110 or p110* polypepeptide; the method of Groups V is directed to the synthesis of 3'-phosphorylated inositol phospholipids by transforming a host cell with a polynucleotide of the present invention; the method of Group VII is drawn to the activation of an enzyme effector of PI-3 kinase having a pleckstrin homology domain using a polynucleotide of the present invention; the method of Group VIII is directed to promoting activation in a mammalian patient of an insulin signaling pathway in a cell characterized by insulin resistance; and the method of Group IX is drawn to reducing cell death associated with trauma in a mammalian patient with an effective amount of 3' phosphorylated inositol phospholipids.

Invention I and Inventions III, V, VII and VIII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the composition of Group I can be used in any one of the distinct methods of Groups III, V, VII and VIII. Invention I is not required for the practice of any other methods.

Invention II is not required for the practice of any of the methods of Groups III-V and VII-IX.

Invention VI and Inventions VII and IX are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the composition of Group VI can be used in the therapy method of Group IX or in a method for activating an enzyme effector of PI 3-kinase having a pleckstrin homology domain of Group VII.

Additionally, Inventions VI and Inventions IV and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case a 3' phosphorylated inositol phospholipid of Group VI can be made by either the methods of Groups IV and V as well as by chemically modification of inositol phospholipids.

Because these inventions are distinct for the reasons given above, and separate search requirements due to the distinctness of each Invention as discussed in details above in both patented and non-patented literature. Therefore, it would be unduly burdensome for the examiner to search and/or consider the patentability

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(examination) of all the inventions in a single application. Accordingly, restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised

that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17 (h).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang Nguyen, Ph.D., whose telephone number is (571) 272-0776.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's mentor, David Guzo, Ph.D., may be reached at (571) 272-0767, or SPE, Dave Nguyen, at (571) 272-0731.

To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 1633; Central Fax No. (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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PATENT EXAMINER

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